

FIGURE 1A

FIGURE 1B

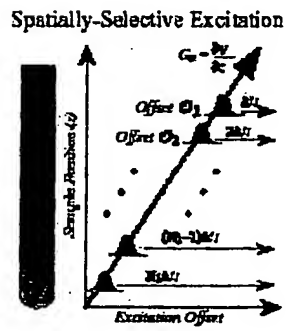


FIGURE 2A

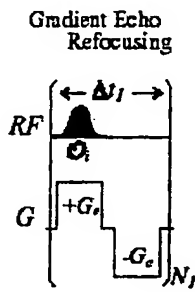


FIGURE 2B

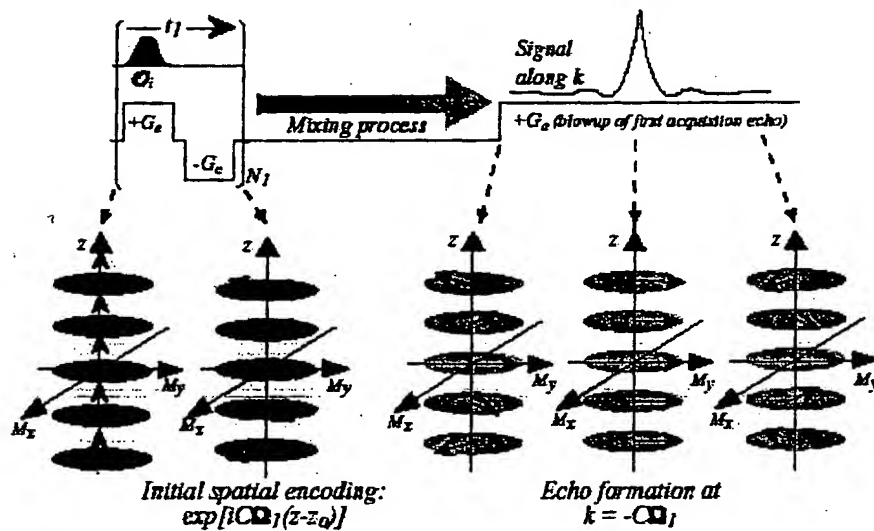
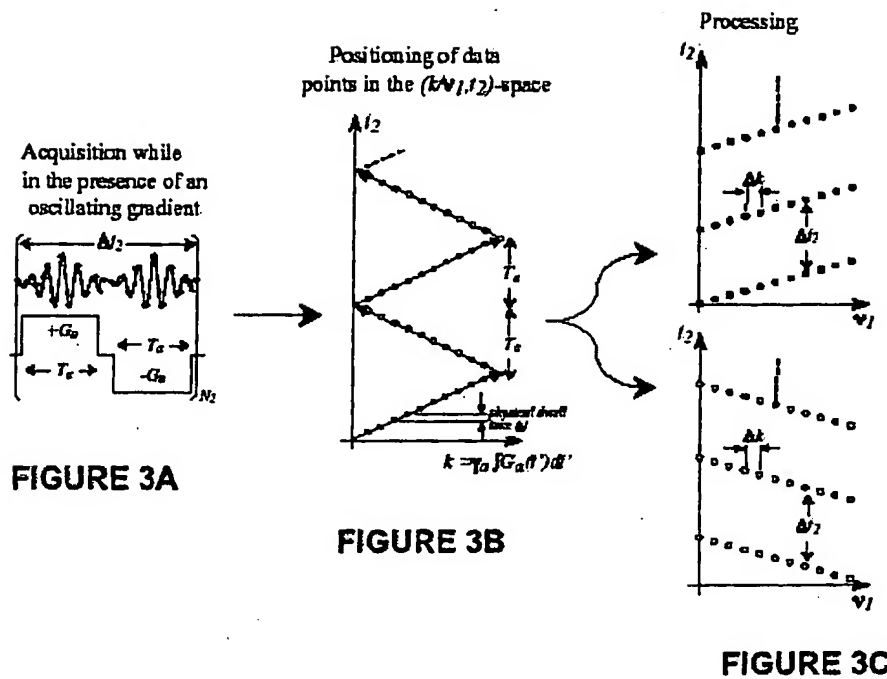


FIGURE 5A

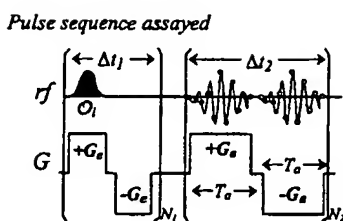


FIGURE 5B

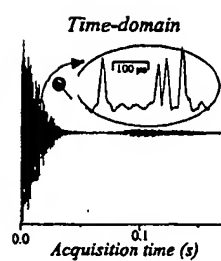


FIGURE 5C

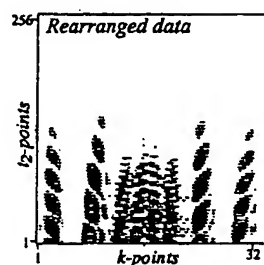


FIGURE 5D

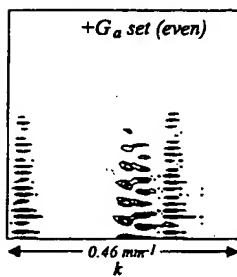


FIGURE 5E

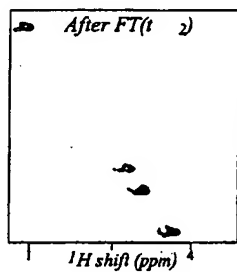
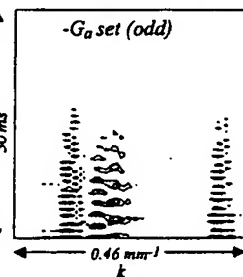


FIGURE 5F

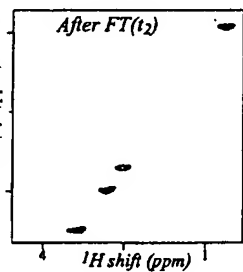


FIGURE 5G

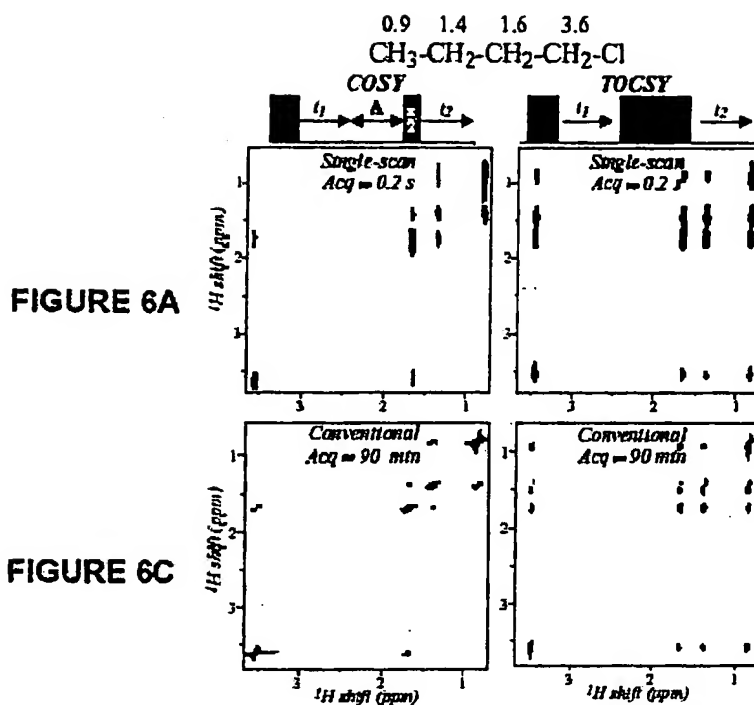


FIGURE 6B

FIGURE 6A

FIGURE 6D

FIGURE 6C

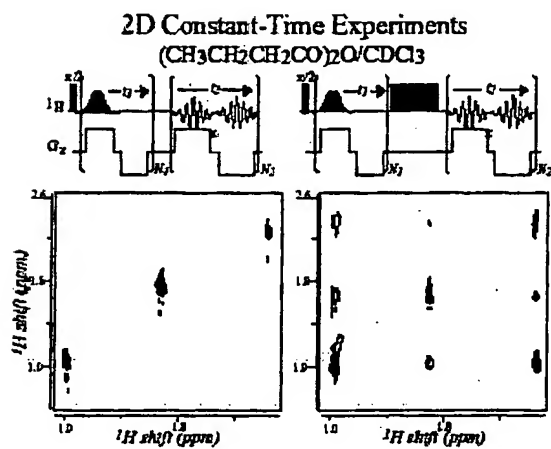


FIGURE 8A

FIGURE 8B

FIGURE 7A

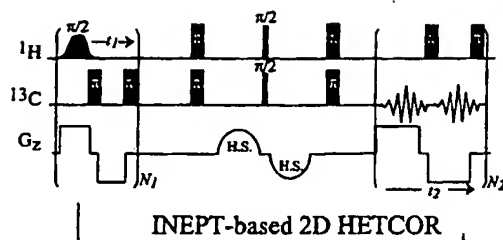


FIGURE 7B

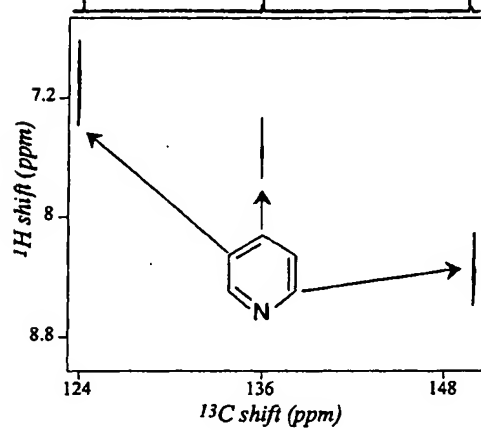


FIGURE 7C

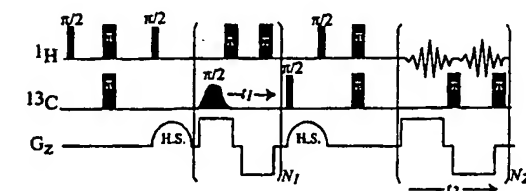


FIGURE 7D

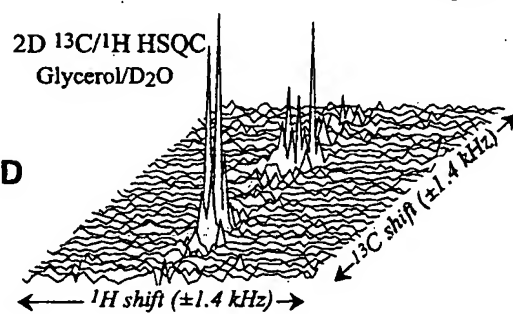


FIGURE 9A

Spatial encoding based on  
discrete excitation pulses

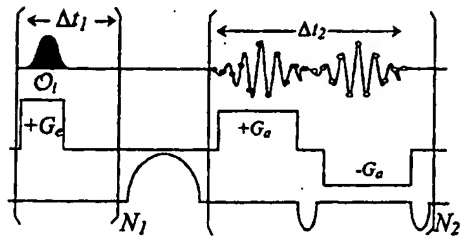
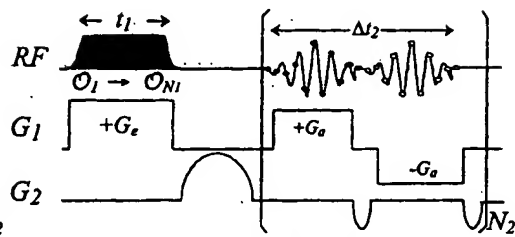


FIGURE 9B

Spatial encoding based on a  
single chirp excitation pulse



Single-Scan 2D Image

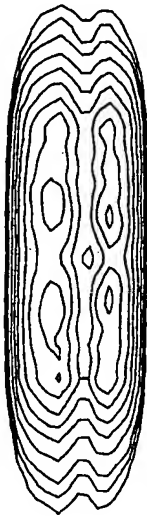


FIGURE 9C

H<sub>2</sub>O phantom imaged

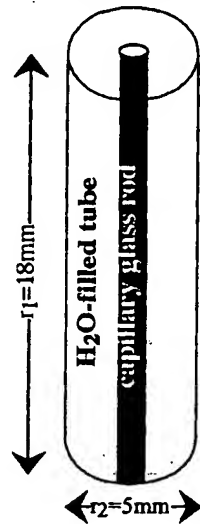


FIGURE 9E

Single-Scan 2D Image

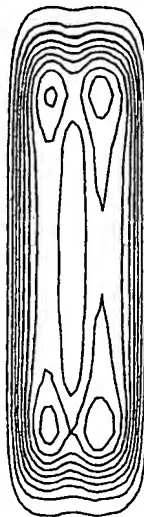


FIGURE 9D

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FIGURE 10

*Spatially-Localized 2D NMR Spectroscopy in a Single Scan*  
*Total Data Acquisition Time: 106 ms*

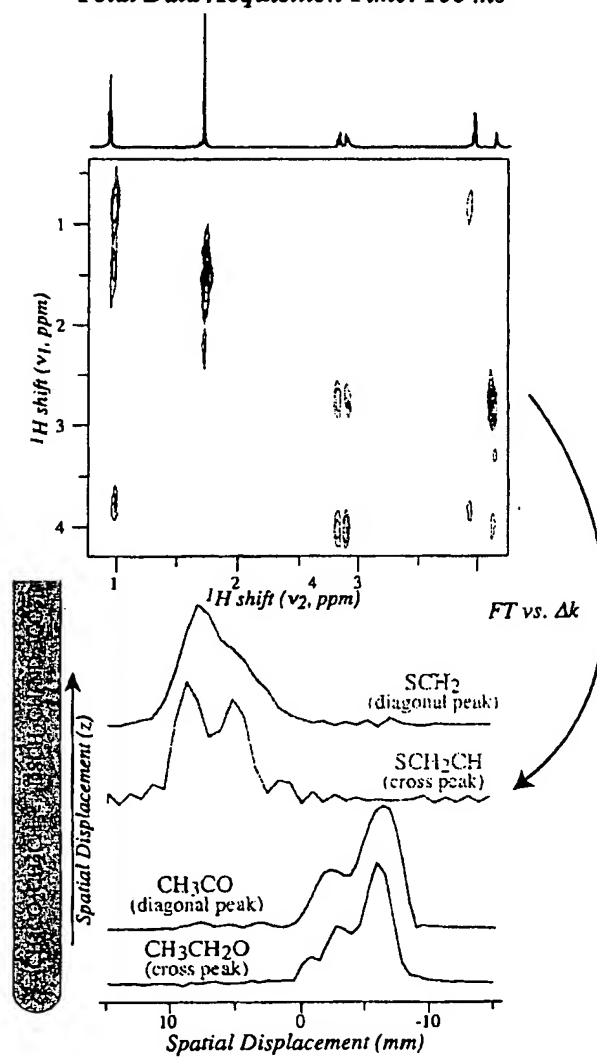


FIGURE 12A

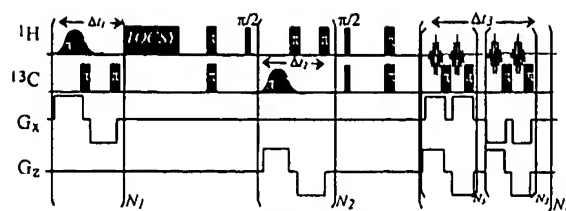


FIGURE 12B

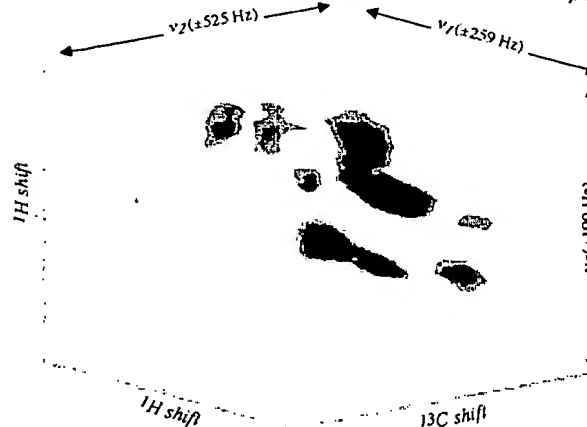


FIGURE 12C

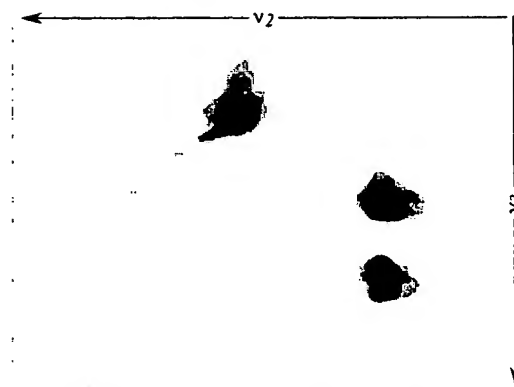
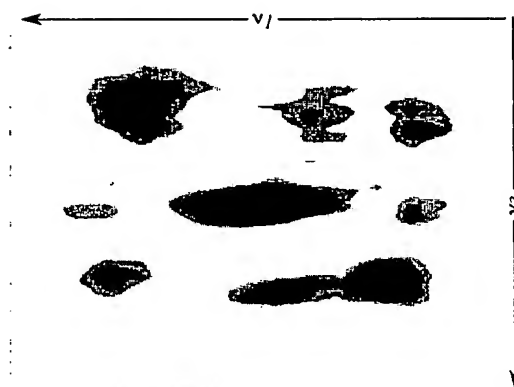


FIGURE 12D



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FIGURE 13A

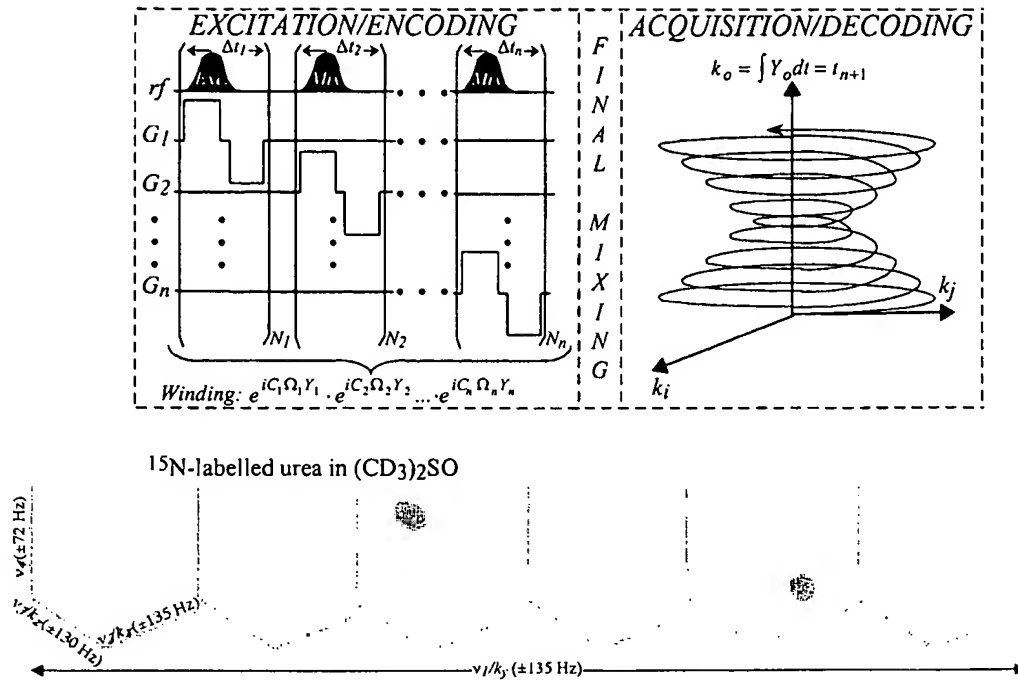


FIGURE 13B

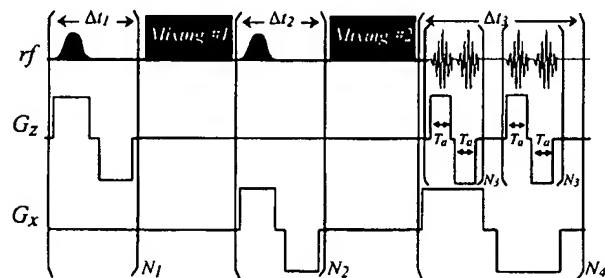
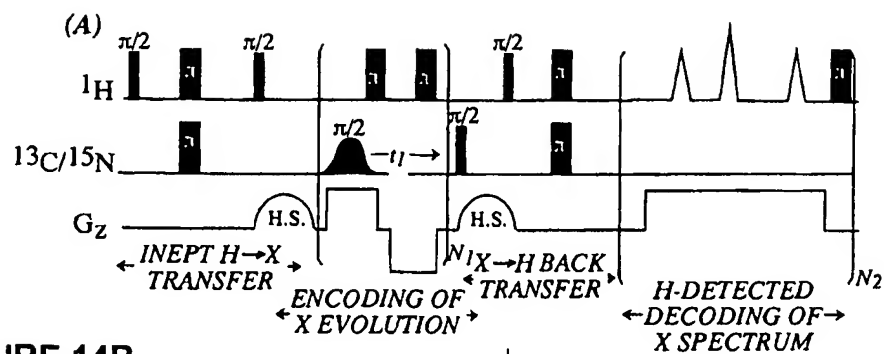
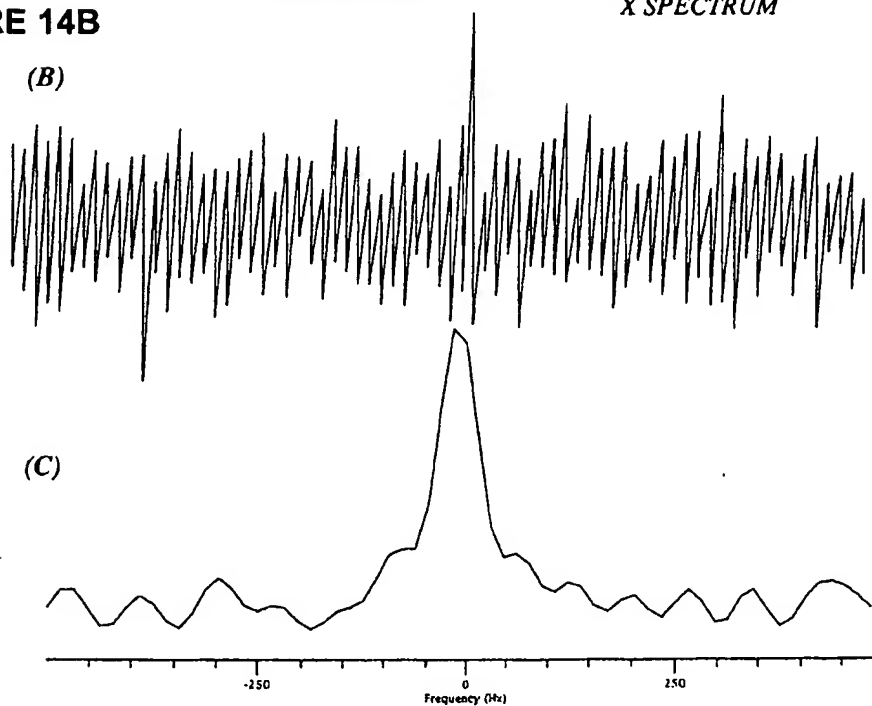


FIGURE 11

**FIGURE 14A**



**FIGURE 14B**



**FIGURE 14C**

FIGURE 15A

(A) Normal Excitation with:  
RF Phase  $\phi$  Constant; No Inhomogeneity

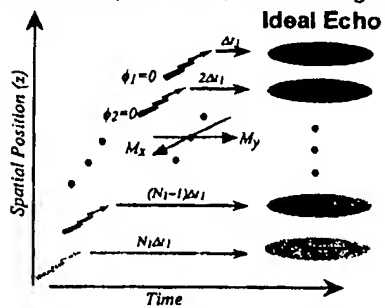


FIGURE 15B

(B) Normal Excitation with:  
RF Phase  $\phi$  Constant; Inhomogeneities

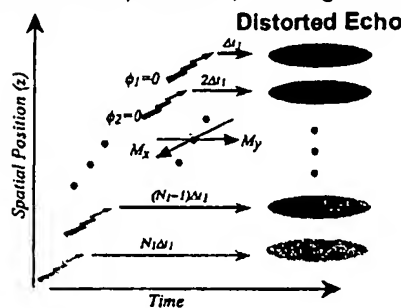
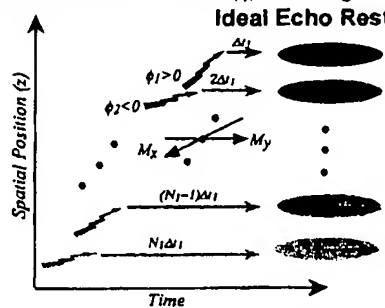


FIGURE 15C

(C) Tailored Excitation with:  
Variable RF Phases  $\phi_i$ ; Inhomogeneities



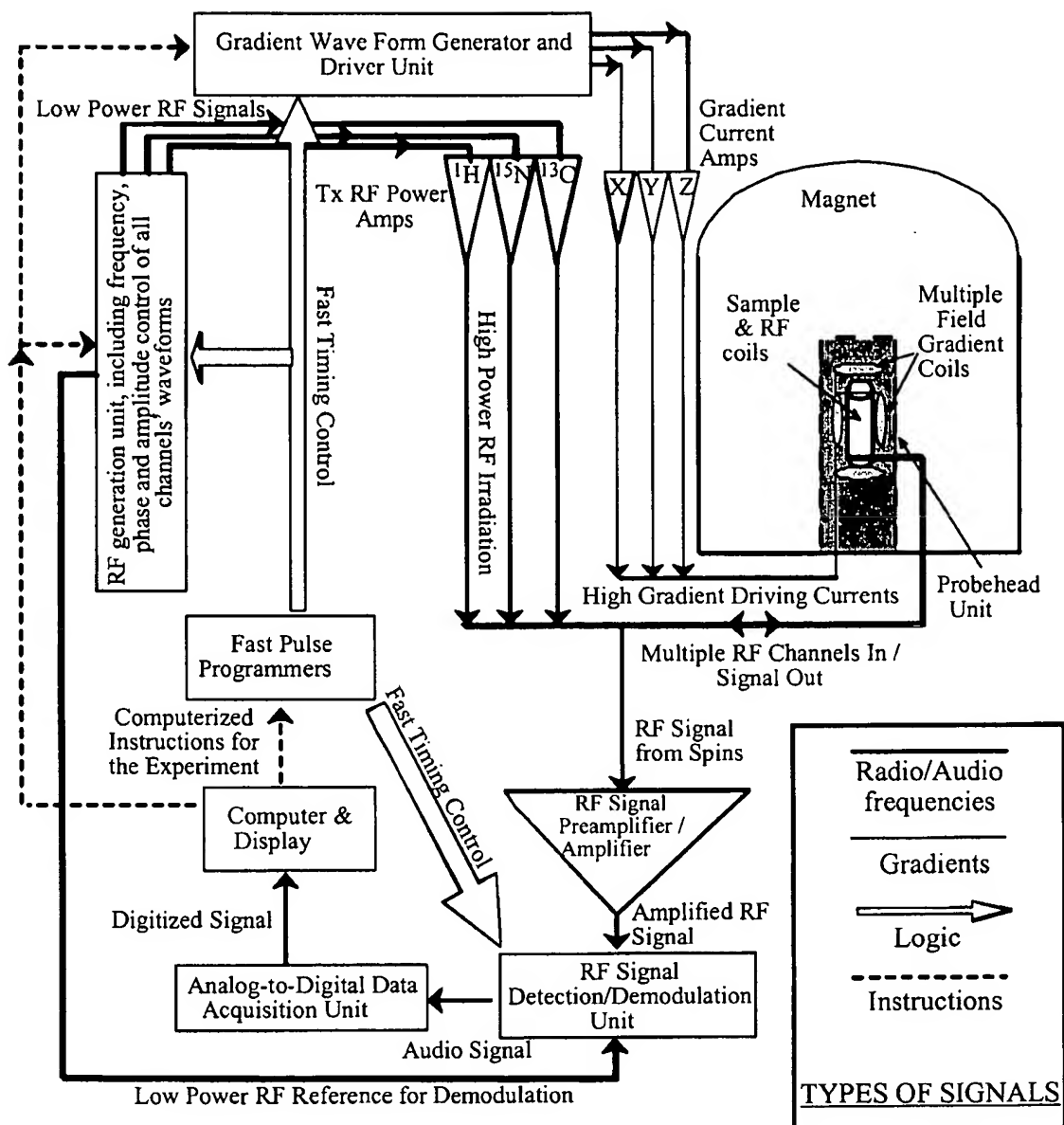


FIGURE 16

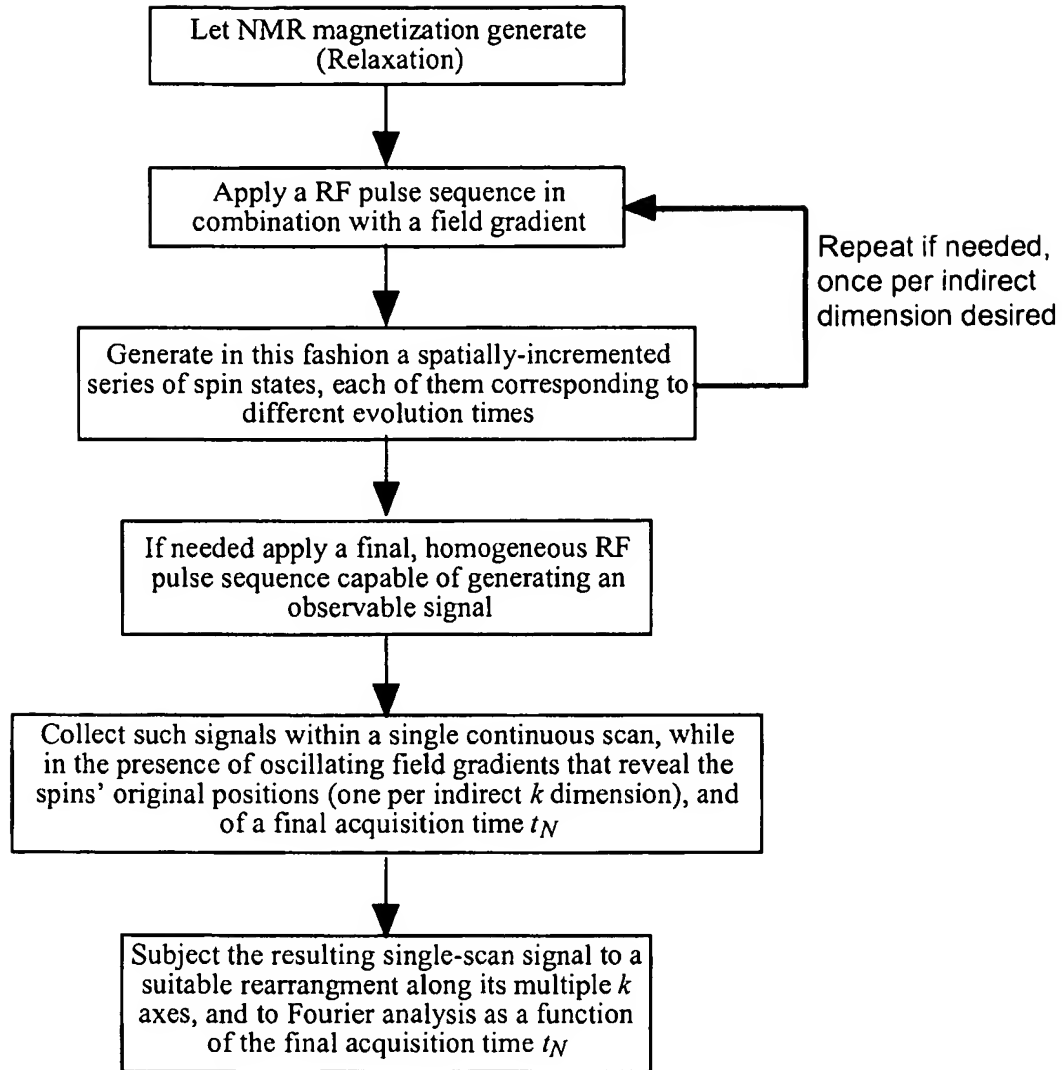


FIGURE 17